```
     (FILE 'HOME' ENTERED AT 13:42:39 ON 09 NOV 2006)

     FILE 'REGISTRY' ENTERED AT 13:42:51 ON 09 NOV 2006
L1                STRUCTURE UPLOADED
L2             0 S L1
L3            23 S L1 SSS FULL
L4                STRUCTURE UPLOADED
L5             1 S L4
L6            33 S L4 SSS FULL

     FILE 'CAPLUS' ENTERED AT 13:45:49 ON 09 NOV 2006
L7             0 S L3 AND L6
L8             0 S L6 AND (PDEV OR PHOSPHODIESTERASE(W)(V OR 5))
L9             0 S L3 AND ANTICHOLINERGIC
L10            1 S L6 AND (PDEIV OR PDE4 OR PHOSPHODIESTERASE(W)(IV OR 4))

     FILE 'REGISTRY' ENTERED AT 13:47:56 ON 09 NOV 2006
L11            3 S ENPROFYLLINE/CN OR THEOPHYLLINE/CN OR ROFLUMILAST/CN OR (BAY-

     FILE 'CAPLUS' ENTERED AT 13:48:43 ON 09 NOV 2006
L12            1 S L6 AND L11
L13            5 S L3
L14           26 S L6
L15            0 S L14 NOT PY>2002
L16            0 S L14 NOT PY>2003
L17            1 S L14 NOT PY>2004
```

=> file registry
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 13:42:51 ON 09 NOV 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 8 NOV 2006 HIGHEST RN 912757-80-3
DICTIONARY FILE UPDATES: 8 NOV 2006 HIGHEST RN 912757-80-3

New CAS Information Use Policies, enter HELP USAGETERMS for details.

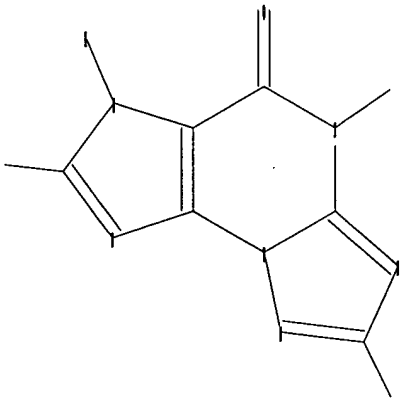
TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

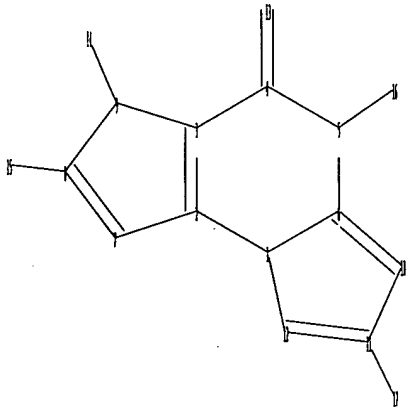
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Program Files\Stnexp\Queries\10613783pde4.str



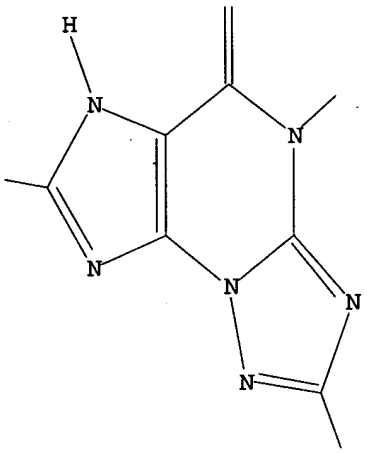


chain nodes :
13 14 15 16 17
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12
chain bonds :
4-13 5-16 8-15 9-14 11-17
ring bonds :
1-2 1-6 1-12 2-3 2-7 3-4 3-9 4-5 5-6 6-10 7-8 8-9 10-11 11-12
exact/norm bonds :
1-2 1-6 1-12 2-3 2-7 3-4 3-9 4-5 4-13 5-6 5-16 6-10 7-8 8-9 10-11 11-12
exact bonds :
8-15 9-14 11-17

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 13:43:30 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 6 TO ITERATE

100.0% PROCESSED 6 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 6 TO 266
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 sss full
FULL SEARCH INITIATED 13:43:38 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 174 TO ITERATE

100.0% PROCESSED 174 ITERATIONS 23 ANSWERS
SEARCH TIME: 00.00.01

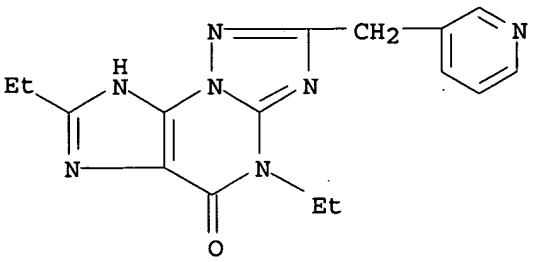
L3 23 SEA SSS FUL L1

=> d l23 scan
L23 NOT FOUND

The L-number has not been used in the current session or has
been deleted.

=> d l3 scan

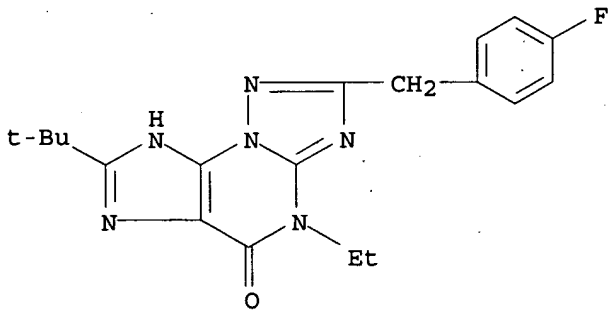
L3 23 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 4H-[1,2,4]Triazolo[5,1-b]purin-5(6H)-one, 4,7-diethyl-2-(3-pyridinylmethyl)- (9CI)
MF C16 H17 N7 O



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

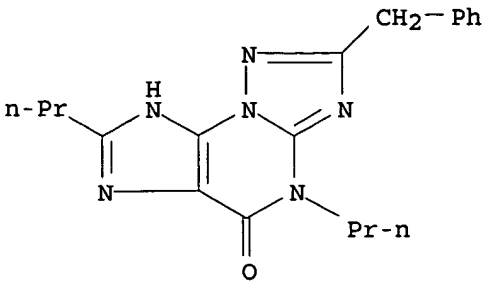
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):4

L3 23 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 4H-[1,2,4]Triazolo[5,1-b]purin-5(6H)-one, 7-(1,1-dimethylethyl)-4-ethyl-2-[(4-fluorophenyl)methyl]- (9CI)
MF C19 H21 F N6 O



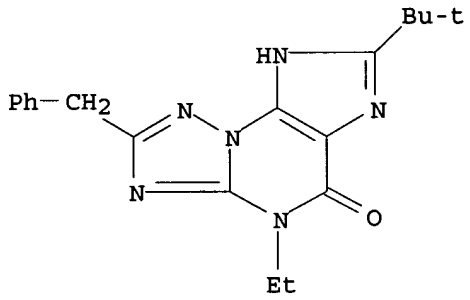
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 23 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 4H-[1,2,4]Triazolo[5,1-b]purin-5(6H)-one, 2-(phenylmethyl)-4,7-dipropyl- (9CI)
MF C19 H22 N6 O



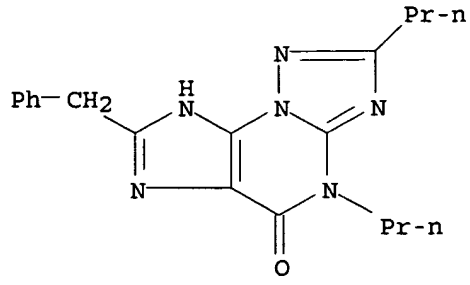
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 23 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 4H-[1,2,4]Triazolo[5,1-b]purin-5(6H)-one, 7-(1,1-dimethylethyl)-4-ethyl-2-(phenylmethyl)- (9CI)
MF C19 H22 N6 O



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 23 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 4H-[1,2,4]Triazolo[5,1-b]purin-5(6H)-one, 7-(phenylmethyl)-2,4-dipropyl-(9CI)
MF C19 H22 N6 O



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):
Uploading
'UPLOAD SSTN' IS NOT VALID HERE

To display more answers, enter the number of answers you would like to see. To end the display, enter "NONE", "N", "0", or "END".
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):C:\Program Files\Stnexp\Queries\10614365anticholinergic.str
YOU WISH TO SCAN? (1):
'0 SZ' @-#&1~" J*' IS NOT VALID HERE

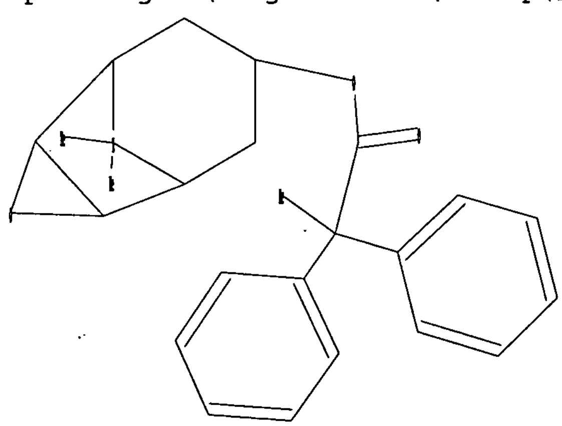
To display more answers, enter the number of answers you would like to see. To end the display, enter "NONE", "N", "0", or "END".
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):
'0 SZ' @-#&1~" J*' IS NOT VALID HERE

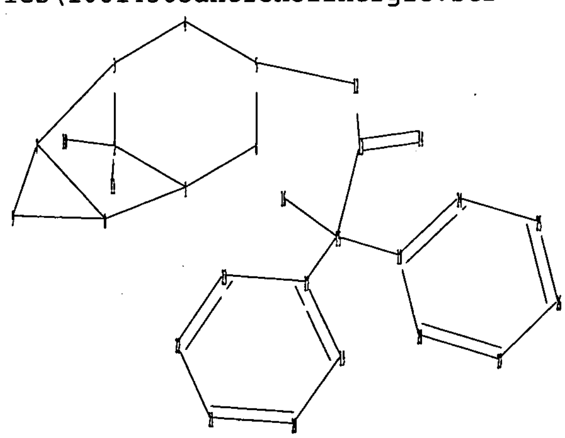
To display more answers, enter the number of answers you would like to see. To end the display, enter "NONE", "N", "0", or "END".
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):
'0 SZ' @-#&1~" J*' IS NOT VALID HERE

To display more answers, enter the number of answers you would like to see. To end the display, enter "NONE", "N", "0", or "END".
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):
'0 SZ' @-#&1~" J*' IS NOT VALID HERE

To display more answers, enter the number of answers you would like to see. To end the display, enter "NONE", "N", "0", or "END".
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=>
Uploading C:\Program Files\Stnexp\Queries\10614365anticholinergic.str





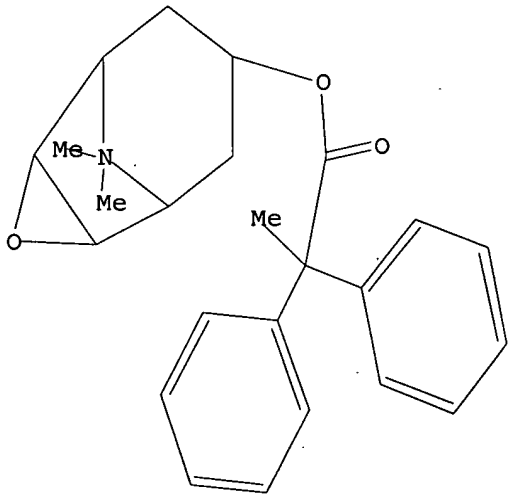
chain nodes :
10 11 12 13 14 15 16
ring nodes :
1 2 3 4 5 6 7 8 9 17 18 19 20 21 22 23 24 25 26 27 28
chain bonds :
2-10 2-11 5-12 12-13 13-14 13-15 15-16 15-17 15-18
ring bonds :
1-2 1-6 1-8 2-3 3-4 3-7 4-5 5-6 7-8 7-9 8-9 17-19 17-23 18-24 18-28 19-20 20-21 21-22 22-23 24-25 25-26 26-27 27-28
exact/norm bonds :
1-2 1-6 1-8 2-3 3-4 3-7 4-5 5-6 5-12 7-8 7-9 8-9 12-13 13-14

exact bonds :
2-10 2-11 13-15 15-16 15-17 15-18
normalized bonds :
17-19 17-23 18-24 18-28 19-20 20-21 21-22 22-23 24-25 25-26 26-27 27-28

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:Atom 18:Atom
19:Atom 20:Atom 21:Atom
22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom

L4 STRUCTURE UPLOADED

=> d l4
L4 HAS NO ANSWERS
L4 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l4
SAMPLE SEARCH INITIATED 13:45:08 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2 TO ITERATE

100.0% PROCESSED 2 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 2 TO 124
PROJECTED ANSWERS: 1 TO 80

L5 1 SEA SSS SAM L4

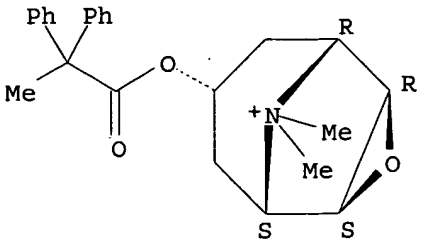
=> d l5 scan

L5 1 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN 3-Oxa-9-azoniatricyclo[3.3.1.02,4]nonane, 9,9-dimethyl-7-(1-oxo-2,2-diphenylpropoxy)-, (1α,2β,4β,5α,7β)-, (2E)-2-butenedioate (1:1) (9CI)
MF C24 H28 N O3 . C4 H3 O4

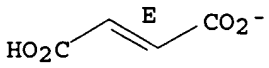
CM 1

Relative stereochemistry.



CM 2

Double bond geometry as shown.



ALL ANSWERS HAVE BEEN SCANNED

=> s l4 sss full
FULL SEARCH INITIATED 13:45:22 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 38 TO ITERATE

100.0% PROCESSED 38 ITERATIONS 33 ANSWERS
SEARCH TIME: 00.00.01

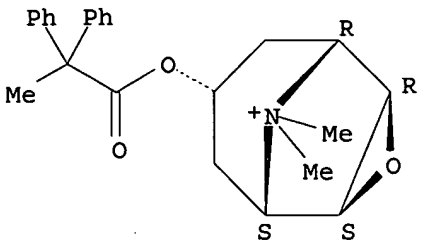
L6 33 SEA SSS FUL L4

=> d l6 scan

L6 33 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 3-Oxa-9-azoniatricyclo[3.3.1.02,4]nonane, 9,9-dimethyl-7-(1-oxo-2,2-diphenylpropoxy)-, bromide, (1α,2β,4β,5α,7β)-, mixt. with rel-N-[2-hydroxy-5-[(1R)-1-hydroxy-2-[[(1R)-2-(4-methoxyphenyl)-1-methylethyl]amino]ethyl]phenyl]formamide (2E)-2-butenedioate (2:1) (salt) dihydrate (9CI)
MF C24 H28 N O3 . C19 H24 N2 O4 . 1/2 C4 H4 O4 . Br . H2 O
CI MXS

CM 1

Relative stereochemistry.

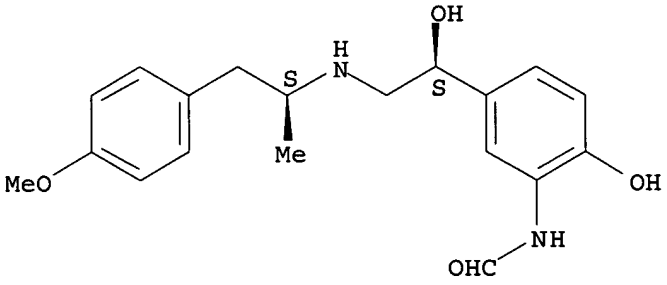


● Br^-

CM 2

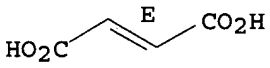
CM 3

Relative stereochemistry.



CM 4

Double bond geometry as shown.

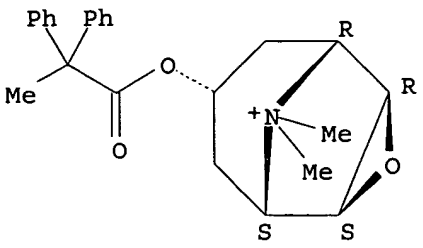


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):4

L6 33 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 3-Oxa-9-azoniatricyclo[3.3.1.02,4]nonane, 9,9-dimethyl-7-(1-oxo-2,2-diphenylpropoxy)-, bromide, (1α,2β,4β,5α,7β)-, mixt. with N-[2-hydroxy-5-[(1R)-1-hydroxy-2-[[(1R)-2-(4-methoxyphenyl)-1-methylethyl]amino]ethyl]phenyl]formamide (2E)-2-butenedioate (2:1) (salt) dihydrate (9CI)
MF C24 H28 N O3 . C19 H24 N2 O4 . 1/2 C4 H4 O4 . Br . H2 O
CI MXS

CM 1

Relative stereochemistry.

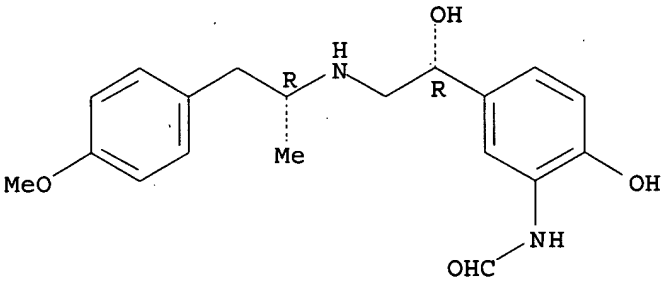


● Br^-

CM 2

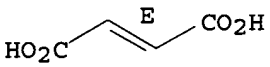
CM 3

Absolute stereochemistry. Rotation (-).



CM 4

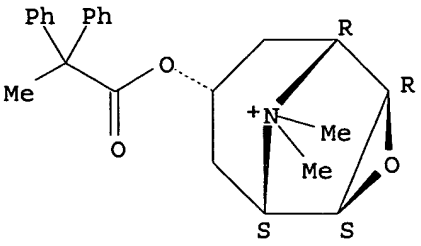
Double bond geometry as shown.



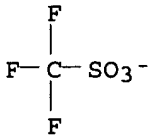
L6 33 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 3-Oxa-9-azoniatricyclo[3.3.1.02,4]nonane, 9,9-dimethyl-7-(1-oxo-2,2-diphenylpropoxy)-, (1α,2β,4β,5α,7β)-, salt with trifluoromethanesulfonic acid (1:1) (9CI)
MF C24 H28 N O3 . C F3 O3 S

CM 1

Relative stereochemistry.



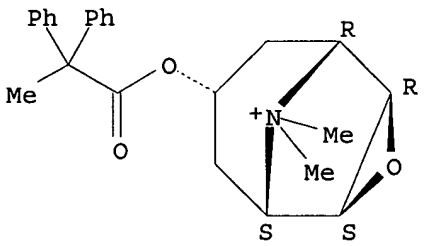
CM 2



L6 33 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 3-Oxa-9-azoniatricyclo[3.3.1.02,4]nonane, 9,9-dimethyl-7-(1-oxo-2,2-diphenylpropoxy)-, bromide, (1α,2β,4β,5α,7β)-, mixt. with cis-4-cyano-4-[3-(cyclopentyloxy)-4-methoxyphenyl]cyclohexanecarboxylic acid (9CI)
MF C24 H28 N O3 . C20 H25 N O4 . Br
CI MXS

CM 1

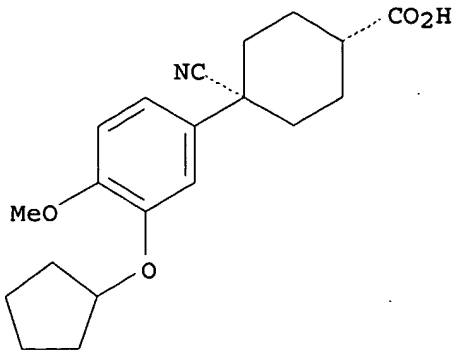
Relative stereochemistry.



● Br-

CM 2

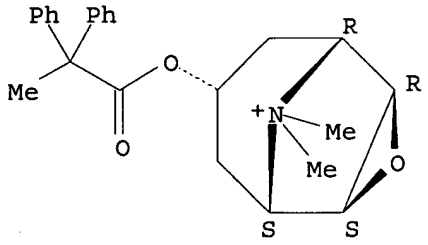
Relative stereochemistry.



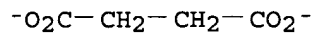
L6 33 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 3-Oxa-9-azoniatricyclo[3.3.1.02,4]nonane, 9,9-dimethyl-7-(1-oxo-2,2-diphenylpropoxy)-, (1α,2β,4β,5α,7β)-, butanedioate (2:1) (9CI)
MF C24 H28 N O3 . 1/2 C4 H4 O4

CM 1

Relative stereochemistry.



CM 2



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	335.20	335.41

FILE 'CAPLUS' ENTERED AT 13:45:49 ON 09 NOV 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE COVERS 1907 - 9 Nov 2006 VOL 145 ISS 20
FILE LAST UPDATED: 8 Nov 2006 (20061108/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

```
=> s l3 and l6
             5 L3
            26 L6
L7           0 L3 AND L6

=> s l6 and (PDEV or phosphodiesterase(w)(V or 5))
            26 L6
            14 PDEV
         26215 PHOSPHODIESTERASE
       1087904 V
       6240147 5
          1068 PHOSPHODIESTERASE(W)(V OR 5)
L8           0 L6 AND (PDEV OR PHOSPHODIESTERASE(W)(V OR 5))

=> s l3 and anticholinergic
             5 L3
          5118 ANTICHOLINERGIC
L9           0 L3 AND ANTICHOLINERGIC

=> s l6 and (PDEIV or PDE4 or phosphodiesterase(w)(IV or 4))
            26 L6
            24 PDEIV
          1193 PDE4
         26215 PHOSPHODIESTERASE
        520751 IV
       5451214 4
          1494 PHOSPHODIESTERASE(W)(IV OR 4)
L10          1 L6 AND (PDEIV OR PDE4 OR PHOSPHODIESTERASE(W)(IV OR 4))

=> d l10 ti abs bib

L10  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Pharmaceutical compositions comprising anticholinergic agents and
     phosphodiesterase IV (PDE-IV) inhibitors for the
     treatment of respiratory diseases
AB   The invention provides pharmaceutical compns. comprising anticholinergic
     agents and PDE-IV inhibitors, as well as a method for the production and use
     thereof in the treatment of respiratory diseases.  Powder inhalant
     formulations are included.
AN   2004:41257  CAPLUS <<LOGINID::20061109>>
DN   140:87709
TI   Pharmaceutical compositions comprising anticholinergic agents and
     phosphodiesterase IV (PDE-IV) inhibitors for the
     treatment of respiratory diseases
IN   Pairet, Michel; Meade, Christopher John Montague; Pieper, Michael P.
PA   Boehringer Ingelheim Pharma G.m.b.H. & Co. K.-G., Germany
SO   PCT Int. Appl., 37 pp.
     CODEN: PIXXD2
DT   Patent
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LA   German
FAN.CNT 1
     PATENT NO.            KIND   DATE        APPLICATION NO.          DATE
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PI   WO 2004004704          A1    20040115    WO 2003-EP6668           20030625
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             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
             PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR,
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     DE 10230769             A1    20040122    DE 2002-10230769         20020709
     CA 2492026              AA    20040115    CA 2003-2492026          20030625
     AU 2003242755           A1    20040123    AU 2003-242755           20030625
     EP 1521576              A1    20050413    EP 2003-762509           20030625
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     JP 2005532379           T2    20051027    JP 2004-518566           20030625
     US 2004058950           A1    20040325    US 2003-614365           20030707
PRAI DE 2002-10230769        A     20020709
     US 2002-407895P         P     20020903
     WO 2003-EP6668          W     20030625
OS   MARPAT 140:87709
RE.CNT  9     THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT


=> file registry
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                                                        ENTRY     SESSION
FULL ESTIMATED COST                                      24.08      359.49

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)            SINCE FILE      TOTAL
                                                        ENTRY     SESSION
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DICTIONARY FILE UPDATES:   8 NOV 2006  HIGHEST RN 912757-80-3

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  Please note that search-term pricing does apply when
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             1 ROFLUMILAST/CN
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=> file caplus
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
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CA SUBSCRIBER PRICE                                     0.00      -0.75

FILE 'CAPLUS' ENTERED AT 13:48:43 ON 09 NOV 2006
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FILE COVERS 1907 - 9 Nov 2006  VOL 145 ISS 20
FILE LAST UPDATED: 8 Nov 2006  (20061108/ED)

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=> s l6 and L11
            26 L6
         14693 L11
L12          1 L6 AND L11

=> d l12 ti abs bib

L12  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Pharmaceutical compositions comprising anticholinergic agents and
     phosphodiesterase IV (PDE-IV) inhibitors for the treatment of respiratory
     diseases
AB   The invention provides pharmaceutical compns. comprising anticholinergic
     agents and PDE-IV inhibitors, as well as a method for the production and use
     thereof in the treatment of respiratory diseases.  Powder inhalant
     formulations are included.
AN   2004:41257  CAPLUS <<LOGINID::20061109>>
DN   140:87709
TI   Pharmaceutical compositions comprising anticholinergic agents and
     phosphodiesterase IV (PDE-IV) inhibitors for the treatment of respiratory
     diseases
IN   Pairet, Michel; Meade, Christopher John Montague; Pieper, Michael P.
PA   Boehringer Ingelheim Pharma G.m.b.H. & Co. K.-G., Germany
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SO   PCT Int. Appl., 37 pp.
     CODEN: PIXXD2
DT   Patent
LA   German
FAN.CNT 1
     PATENT NO.          KIND   DATE        APPLICATION NO.         DATE
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PI   WO 2004004704        A1    20040115    WO 2003-EP6668          20030625
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             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
             PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR,
             TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
             FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     DE 10230769           A1    20040122    DE 2002-10230769        20020709
     CA 2492026            AA    20040115    CA 2003-2492026         20030625
     AU 2003242755         A1    20040123    AU 2003-242755          20030625
     EP 1521576            A1    20050413    EP 2003-762509          20030625
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
     JP 2005532379         T2    20051027    JP 2004-518566          20030625
     US 2004058950         A1    20040325    US 2003-614365          20030707
PRAI DE 2002-10230769      A     20020709
     US 2002-407895P       P     20020903
     WO 2003-EP6668        W     20030625
OS   MARPAT 140:87709
RE.CNT  9     THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT


=> s l3
L13          5 L3

=> d l13 1-5 ti

L13  ANSWER 1 OF 5  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Preparation of imidazotriazolopyrimidines as adenosine receptor
     antagonists

L13  ANSWER 2 OF 5  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Inhalant compositions containing anticholinergics and PDE IV inhibitors

L13  ANSWER 3 OF 5  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Tricyclic nitrogen heterocycles as phosphodiesterase IV inhibitors

L13  ANSWER 4 OF 5  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Preparation of imidazotriazolopyrimidines as adenosine receptor
     antagonists

L13  ANSWER 5 OF 5  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Imidazotriazolopyrimidines as adenosine antagonists


=> d l13 1 2 3 4 5 ti abs bib

L13  ANSWER 1 OF 5  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Preparation of imidazotriazolopyrimidines as adenosine receptor
     antagonists
GI
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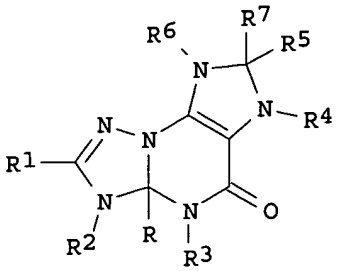

I

AB Title compds. [I; R1 = H, alkyl, phenyl(alkyl), alkoxycarbonyl, etc.; R2 or R3 = alkyl, alkenyl, benzyl; RR2 or RR3 = bond; R4 or R6 = H, alkyl(amino), CH2Ph, etc.; R4R7 or R6R7 = bond; R5 = H, alkyl, phenyl(alkyl), etc.] were prepared Thus,7-amino-2-[(4-methoxybenzyloxy)methyl]-s-triazolo[1,5-a]pyrimidine-5-one was converted in 10 steps to I (RR2 = bond, R1 = CH2OPh, R3 = Et, R4 or R6 = H, R4R7 or R6R7 = bond, R5 = cyclopentyl). Data for biol. activity of I were given.

AN 2002:942787 CAPLUS <<LOGINID::20061109>>

DN 138:14073

TI Preparation of imidazotriazolopyrimidines as adenosine receptor antagonists

IN Blech, Stefan; Carter, Adrian; Gaida, Wolfram; Hoffmann, Matthias; Kuefner-Muehl, Ulrike; Meade, Christopher John Montague; Pohl, Gerald; Kummer, Werner; Lehr, Erich; Mierau, Joachim; Weiser, Thomas

PA Boehringer Ingelheim Pharma KG, Germany

SO U.S., 34 pp., Cont.-in-part of U.S. Ser. No. 333,621, abandoned.
CODEN: USXXAM

DT Patent

LA English

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6492377	B1	20021210	US 2000-559806	20000426
	WO 2000012511	A1	20000309	WO 1998-EP5455	19980827
	W: AU, BG, BR, BY, CA, CN, CZ, EE, HU, ID, IL, JP, KR, KZ, LT, LV, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR, UA, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	ZA 9808189	A	20000110	ZA 1998-8189	19980908
	BR 9900187	A	20000502	BR 1999-187	19990127
	MX 9905843	A	20000331	MX 1999-5843	19990621
PRAI	US 1998-90586P	P	19980625		
	US 1998-90587P	P	19980625		
	WO 1998-EP5455	A2	19980827		
	US 1999-333408	A2	19990615		
	US 1999-333621	B2	19990615		

OS MARPAT 138:14073

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

TI Inhalant compositions containing anticholinergics and PDE IV inhibitors

AB The invention relates to drug compns. based on anticholinergics and PDE IV inhibitors, to methods for their production, and to their use as inhalants for the treatment of respiratory tract diseases. Thus an inhalation powder was composed of capsules that contained (μg/capsule): tiotropium

bromide 21.7; AWD-12-281 200; lactose 4778.3.

AN 2002:695761 CAPLUS <<LOGINID::20061109>>

DN 137:237718

TI Inhalant compositions containing anticholinergics and PDE IV inhibitors

IN Meade, Christopher John Montague; Pairet, Michel; Pieper, Michael Paul

PA Boehringer Ingelheim Pharma K.-G., Germany

SO PCT Int. Appl., 34 pp.
CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 14

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002069945	A2	20020912	WO 2002-EP1988	20020226
	WO 2002069945	A3	20030130		
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	DE 10110772	A1	20020912	DE 2001-10110772	20010307
	CA 2439763	AA	20020912	CA 2002-2439763	20020226
	EP 1372649	A2	20040102	EP 2002-727329	20020226
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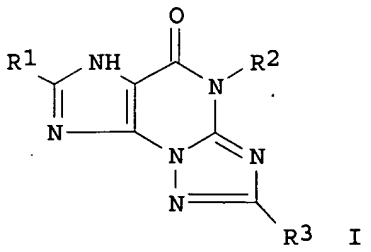
	JP 2004521134	T2	20040715	JP 2002-569122	20020226
	BR 2002007883	A	20040727	BR 2002-7883	20020226
	NZ 528621	A	20050429	NZ 2002-528621	20020226
	CN 1649588	A	20050803	CN 2002-805346	20020226
	ZA 2003006221	A	20040722	ZA 2003-6221	20030812
PRAI	DE 2001-10110772	A	20010307		
	WO 2002-EP1988	W	20020226		

OS MARPAT 137:237718

L13 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

TI Tricyclic nitrogen heterocycles as phosphodiesterase IV inhibitors

GI



I

AB Tricyclic N heterocycles I [R1 = C1-5 alkyl, C5-6 cycloalkyl, Ph, PhCH2, 5- or 6-membered heterocyclic ring; R2 = C1-5 alkyl, C2-4 alkenyl; R3 = (substituted) C1-5 alkyl, (substituted) C5-6 cycloalkyl] and their salts are phosphodiesterase IV inhibitors and are potentially useful as vasodilators, inflammation inhibitors, and antiallergic agents. Thus, I (R1 = cyclopentyl, R2 = n-Pr, R3 = i-Pr) inhibited human monocyte phosphodiesterase IV with an IC50 of 0.018 μm. A tablet formulation contained I 80, corn starch 190, lactose 55, microcryst. cellulose 35, PVP

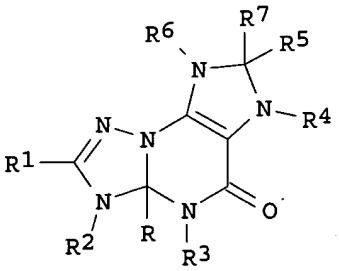
15, Na carboxymethylstarch 23, and Mg stearate 2 mg.

AN 2000:420941 CAPLUS <<LOGINID::20061109>>
DN 133:53696
TI Tricyclic nitrogen heterocycles as phosphodiesterase IV inhibitors
IN Hoffmann, Matthias; Jung, Birgit; Kuefner-Muehl, Ulrike; Meade, Christopher John Montague
PA Boehringer Ingelheim Pharma K.-G., Germany
SO PCT Int. Appl., 17 pp.
CODEN: PIXXD2
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000035428	A2	20000622	WO 1999-EP9086	19991124
	WO 2000035428	A3	20000928		
	W: CA, JP, MX, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	DE 19858331	A1	20000621	DE 1998-19858331	19981217
	CA 2345752	AA	20000622	CA 1999-2345752	19991124
	EP 1140098	A2	20011010	EP 1999-959324	19991124
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	US 6417190	B1	20020709	US 1999-458789	19991210
PRAI	DE 1998-19858331	A	19981217		
	US 1999-127777P	P	19990405		
	WO 1999-EP9086	W	19991124		

OS MARPAT 133:53696

L13 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
TI Preparation of imidazotriazolopyrimidines as adenosine receptor antagonists
GI



I

AB Title compds. [I; R1 = H, alkyl, phenyl(alkyl), alkoxycarbonyl, etc.; R2 or R3 = H, alkyl, phenylalkyl, heterocyclyl(alkyl), etc.; RR2 or RR3 = bond; R4 or R6 = H, (amino)alkyl, CH2Ph, etc.; R4R7 or R6R7 = bond; R5 = H, alkyl, phenyl(alkyl), etc.] were prepared Thus,7-amino-2-[(4-methoxybenzyloxy)methyl]-s-triazolo[1,5-a]pyrimidine-5-one was converted in 10 steps to I (RR2 = bond, R1 = CH2OPh, R3 = Et, R4 or R6 = H, R4R7 or R6R7 = bond, R5 = cyclopentyl). Data for biol. activity of I were given.

AN 2000:161287 CAPLUS <<LOGINID::20061109>>
DN 132:194388
TI Preparation of imidazotriazolopyrimidines as adenosine receptor antagonists
IN Kufner-muhl, Ulrike; Kummer, Werner; Pohl, Gerald; Gaida, Wolfram; Lehr,

Erich; Mierau, Joachim; Weiser, Thomas; Carter, Adrian; Meade, Christopher John Montague; Blech, Stefan; Hoffmann, Matthias
PA Boehringer Ingelheim Pharma Kg, Germany; et al.
SO PCT Int. Appl., 77 pp.
CODEN: PIXXD2
DT Patent
LA German
FAN.CNT 3

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PI	WO 2000012511	A1	20000309	WO 1998-EP5455	19980827
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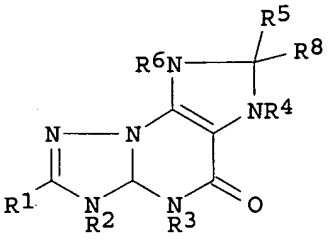
	AU 9893474	A1	20000321	AU 1998-93474	19980827
	US 6492377	B1	20021210	US 2000-559806	20000426
PRAI	US 1998-90586P	P	19980625		
	US 1998-90587P	P	19980625		
	WO 1998-EP5455	A	19980827		
	US 1999-333408	A2	19990615		
	US 1999-333621	B2	19990615		

OS MARPAT 132:194388
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
TI Imidazotriazolopyrimidines as adenosine antagonists
GI



I

AB Imidazotriazolopyrimidines I [R1, R5 = (un)substituted alkyl, alkenyl, alkynyl, cycloalkyl, Ph, norbornyl, norbornenyl, adamantyl, noradamantyl, CO2H, CONH2, NH2, CHO; R2, R3 = (un)substituted alkyl; R2R7, R3R7, R4R8, R8R6 = bond; R4, R6 = H, alkyl, aminoalkyl, PhCH2; R2 and R3 or R4 and R6 cannot be present simultaneously] were prepared for use as adenosine antagonists. Thus, I [R1 = CH2OPh, R2R7, R4R8 = bond, R3 = Et, R5 = cyclopentyl, R4R8 = bond, II] was prepared from 4-MeOC6H4CH2OH, ClCH2CO2H, aminoguanidine cyclopentanecarbonyl chloride, and phenol in 12 steps. II had a KiA1 receptor binding activity of 3.6 nM.
AN 1999:811248 CAPLUS <<LOGINID::20061109>>
DN 132:35717
TI Imidazotriazolopyrimidines as adenosine antagonists
IN Blech, Stefan; Carter, Adrian; Gaida, Wolfram; Hoffmann, Matthias; KuefnerMuehl, Ulrike; Meade, Christopher John Montague; Pohl, Gerald
PA Boehringer Ingelheim Pharma K.-G., Germany
SO PCT Int. Appl., 69 pp.
CODEN: PIXXD2

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DT   Patent
LA   German
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             ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
             PT, SE
     DE 19826843             A1    19991223    DE 1998-19826843         19980616
     CA 2327395              AA    19991223    CA 1999-2327395          19990611
     AU 9945112              A1    20000105    AU 1999-45112            19990611
     EP 1087973              A1    20010404    EP 1999-927950           19990611
     EP 1087973              B1    20030108
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, FI
     JP 2002518396           T2    20020625    JP 2000-554737           19990611
     AT 230748               E     20030115    AT 1999-927950           19990611
     ES 2186369              T3    20030501    ES 1999-927950           19990611
PRAI DE 1998-19826843        A     19980616
     WO 1999-EP4017          W     19990611
OS   MARPAT 132:35717
RE.CNT  2     THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT


=> s l6
L14          26 L6

=> d l14 1-26 ti

L14  ANSWER 1 OF 26  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   New pharmaceutical compositions based on anticholinergics and PDE
     5-inhibitors

L14  ANSWER 2 OF 26  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Pharmaceutical compositions based on anticholinergics and etiprednol

L14  ANSWER 3 OF 26  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Medicaments for the prevention or treatment of heart failure comprising
     administration of an anticholinergic

L14  ANSWER 4 OF 26  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Inhalable pharmaceutical compositions containing an anticholinergic,
     salmeterol, and a steroid

L14  ANSWER 5 OF 26  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Inhalable drugs containing a new anticholinergic, formoterol and a steroid

L14  ANSWER 6 OF 26  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Medicaments for the treatment of urinary tract disorders comprising
     anticholinergic agents

L14  ANSWER 7 OF 26  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Anticholinergic pharmaceuticals for the prevention or treatment of
     alveolar pneumonia

L14  ANSWER 8 OF 26  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Pharmaceutical compositions based on benzilic acid esters and soluble TNF
     receptor fusion proteins

L14  ANSWER 9 OF 26  CAPLUS  COPYRIGHT 2006 ACS on STN
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TI Aerosol formulation for inhalation containing an anticholinergic agent

L14 ANSWER 10 OF 26 CAPLUS COPYRIGHT 2006 ACS on STN
TI Medicament compositions comprising a heterocyclic compound and an anticholinergic

L14 ANSWER 11 OF 26 CAPLUS COPYRIGHT 2006 ACS on STN
TI Medicaments for inhalation comprising an anticholinergic and a betamimetic

L14 ANSWER 12 OF 26 CAPLUS COPYRIGHT 2006 ACS on STN
TI Powder formulations for inhalation containing an anticholinergic agent

L14 ANSWER 13 OF 26 CAPLUS COPYRIGHT 2006 ACS on STN
TI HFC solution aerosol formulations containing an anticholinergic tropane derivative

L14 ANSWER 14 OF 26 CAPLUS COPYRIGHT 2006 ACS on STN
TI Long-acting drug combinations for the treatment of respiratory tract diseases composed of an anticholinergic agent and a beta2-agonist

L14 ANSWER 15 OF 26 CAPLUS COPYRIGHT 2006 ACS on STN
TI Aerosol inhalant formulations containing a diphenylpropionic acid scopine ester-type anticholinergic agent

L14 ANSWER 16 OF 26 CAPLUS COPYRIGHT 2006 ACS on STN
TI Inhalants containing 2,2-diphenylpropionic acid scopine ester N-metho salts as anticholinergic agent in combination with corticosteroids and betamimetics

L14 ANSWER 17 OF 26 CAPLUS COPYRIGHT 2006 ACS on STN
TI Aerosol inhalant formulations containing a diphenylpropionic acid scopine ester-type anticholinergic agent

L14 ANSWER 18 OF 26 CAPLUS COPYRIGHT 2006 ACS on STN
TI Pharmaceutical compositions for the treatment of respiratory tract diseases comprising novel anticholinergic agents and inhibitors of EGFR-kinase

L14 ANSWER 19 OF 26 CAPLUS COPYRIGHT 2006 ACS on STN
TI Pharmaceutical compositions based on novel anticholinergics and p38 kinase inhibitors

L14 ANSWER 20 OF 26 CAPLUS COPYRIGHT 2006 ACS on STN
TI Pharmaceutical compositions comprising novel anticholinergic agents and NK1-receptor antagonists for the treatment of respiratory tract diseases

L14 ANSWER 21 OF 26 CAPLUS COPYRIGHT 2006 ACS on STN
TI Pharmaceutical compositions comprising anticholinergic agents and phosphodiesterase IV (PDE-IV) inhibitors for the treatment of respiratory diseases

L14 ANSWER 22 OF 26 CAPLUS COPYRIGHT 2006 ACS on STN
TI Medicaments containing betamimetic drugs and a novel anticholinesterase drug for treating respiratory tract diseases

L14 ANSWER 23 OF 26 CAPLUS COPYRIGHT 2006 ACS on STN
TI Pharmaceutical combinations containing heterocyclic compounds and scopine diphenyl propionate as anticholinergic agent

L14 ANSWER 24 OF 26 CAPLUS COPYRIGHT 2006 ACS on STN
TI Compositions containing steroids and a scopine diphenylpropionic acid derivative as anticholinesterase drug for the treatment of respiratory tract diseases

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L14  ANSWER 25 OF 26  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Method for producing scopine esters of diarylalkanoic acids

L14  ANSWER 26 OF 26  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Procedures for the production of new anticholinergic alkaloids as well as
     for their use in medicines


=> s l14 not py>2002
      4558921 PY>2002
L15          0 L14 NOT PY>2002

=> s l14 not py>2003
      3500279 PY>2003
L16          0 L14 NOT PY>2003

=> s l14 not py>2004
      2357559 PY>2004
L17          1 L14 NOT PY>2004

=> d l17 ti

L17  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Pharmaceutical combinations containing heterocyclic compounds and scopine
     diphenyl propionate as anticholinergic agent


=> d l17 ti abs bib

L17  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Pharmaceutical combinations containing heterocyclic compounds and scopine
     diphenyl propionate as anticholinergic agent
AB   The invention concerns pharmaceutical combinations that contain
     heterocyclic compds., especially benzofuran and benzopyran derivs., and scopine
     di-Ph propionate or its salts as an anticholinergic agent; the compns. are
     formulated as inhalants and are used for the treatment of respiratory
     tract diseases.  Thus a microcapsule included (μg): scopine
     diphenylpropionate methobromide 200; heterocyclic compound 200; lactose
     4600.
AN   2003:837039  CAPLUS <<LOGINID::20061109>>
DN   139:328380
TI   Pharmaceutical combinations containing heterocyclic compounds and scopine
     diphenyl propionate as anticholinergic agent
IN   Banholzer, Rolf; Meade, Christopher John Montague; Meissner, Helmut;
     Morschhaeuser, Gerd; Pairet, Michel; Pieper, Michael P.; Pohl, Gerald;
     Reichl, Richard; Speck, Georg
PA   Boehringer Ingelheim Pharma G.m.b.H. & Co. K.-G., Germany
SO   PCT Int. Appl., 60 pp.
     CODEN: PIXXD2
DT   Patent
LA   German
FAN.CNT 1
     PATENT NO.          KIND   DATE        APPLICATION NO.         DATE
     ---------------     ----   --------    --------------------    --------
PI   WO 2003087049        A2    20031023    WO 2003-EP3670          20030409
     WO 2003087049        A3    20040205
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
             PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT,
             TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
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FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

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	US 2004002502	A1	20040101	US 2003-409402	20030408
	AU 2003221562	A1	20031027	AU 2003-221562	20030409
PRAI	DE 2002-10216427	A	20020412		
	WO 2003-EP3670	W	20030409		

OS MARPAT 139:328380